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Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/561,912-Conf. #1376
				Filing Date	March 23, 2007
				First Named Inventor	Graham Eastham
				Art Unit	1621
				Examiner Name	S. A. Witherspoon
Sheet	1	of	7	Attorney Docket Number	31229-226445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-4,377,708	03-22-1983	Morris	
	AB*	US-4,500,727	02-19-1985	Kitamura et al.	
	AC*	US-5,246,558	09-21-1993	Chevigne et al.	
	AD*	US-20050090694	04-28-2005	Drent et al.	
	AE*	US-20020045748	04-18-2002	Drent et al.	
	AF*	US-20040162440	08-19-2004	Bunel et al.	
	AG*	US-5,563,308	10-08-1996	Spindler et al.	
	AH*	US-5,760,264	06-02-1998	Brieden	
	AI*	US-5,783,715	07-21-1998	Pugin	
	AJ*	US-6,015,919	01-18-2000	Pugin	
	AK*	US-6,169,192	01-02-2001	Pugin et al.	
	AL*	US-6,191,284	02-20-2001	Knochel et al.	
	AM*	US-6,258,979	07-10-2001	Kagan et al.	
	AN*	US-6,284,925	09-04-2001	Knochel et al.	
	AO*	US-6,337,406	01-08-2002	Zhang	
	AP*	US-6,521,769	02-18-2003	Zhang	
	AQ*	US-6,307,065	10-23-2001	Tjaden et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
	BA	WO-96/19434	06-27-1996	Imperial Chemical Industries PLC	
	BB	WO-01/10551	02-15-2001	INEOS Acrylics UK LTD.	
	BC	WO-01/72697	10-04-2001	Shell Internationale Research	
	BD	WO-03/040159	05-15-2003	Shell Internationale Research	
	BE	WO-98/45040	10-15-1998	DSM N.V.	
	BF	EP-0235864	09-09-1987	Shell Int Research	
	BG	EP-0227160	07-01-1987	Shell Int Research	
	BH	EP-0106379	04-25-1984	Shell Int Research	
	BI	EP-0055875	07-14-1982	Shell Int Research	
	BJ	EP-0489472	06-10-1992	Shell Int Research	
	BK	EP-0274795	07-20-1988	Shell Int Research	
	BL	EP-0499329	08-19-1992	Shell Int Research	

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					T <sup>6</sup>
BM	EP-0386833		09-12-1990	Shell Int Research	
BN	EP-0441447		08-14-1991	Shell Int Research	
BO	EP-0282142		09-14-1988	Shell Int Research	
BP	EP-0495548		07-22-1992	Shell Int Research	
BQ	EP-0144118		06-12-1985	Standard Oil Co Ohio	
BR	WO-0168583		09-20-2001	Shell Int Research	
BS	WO-9842717		10-01-1998	Shell Int Research	
BT	WO-0170659		09-27-2001	Kvaerner Process Tech Ltd et al.	
BU	WO-0212161		02-14-2002	Kvaerner Process Tech Ltd et al.	
BV	WO-2004/050599-A1		06-17-2004	Lucite Int Uk Ltd et al.	
BW	WO-2004/014834-A1		02-19-2004	Lucite Int Uk Ltd et al.	
BX	WO-03/070370-A1		08-28-2003	Shell Int Research et al.	
BY	WO-2004/014552-A1		02-19-2004	Lucite Int Uk Ltd et al.	
BZ	WO-2005/003070-A1		01-13-2005	Lucite Int Uk Ltd et al.	
BA1	WO-2004/024322-A2		03-25-2004	Lucite Int Uk Ltd et al.	
BB1	WO-99/47528-A1		09-23-1999	Ici Plc et al.	
BC1	WO-2005/079981-A1		09-01-2005	Lucite Int Uk Ltd et al.	
BD1	WO-98/41495		09-24-1998	IMPERIAL CHEMICAL INDUSTRIES PLC	

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BE1	WO-05/082830		09-09-2005	Shell Internationale Research	
BF1	JP-08134218-A		05-28-1996	Agency Ind Science Techn	
BG1	EP-0577205-A2		01-05-1994	Shell Int Research	
BH1	EP-0728733-A1		08-28-1996	Dsm Nv et al.	
BI1	EP-0305089-A1		03-01-1989	British Petroleum Co Plc	
BJ1	WO-9708124-A1		03-06-1997	Du Pont et al.	
BK1	EP-0495547-A2		07-22-1992	Shell Int Research	
BL1	EP-0683764-A1		11-29-1995	Shell Int Research	
BM1	WO-01/85662-A2		11-15-2001	Basf Ag et al.	
BN1	WO-06/62467-A1		06-15-2006	Glow Ab et al.	

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	CA	"Highly active [Pd(AcO) <sub>2</sub> ]dppp(I) catalyst for the CO-C <sub>2</sub> H <sub>4</sub> copolymerization in H <sub>2</sub> O-CH <sub>3</sub> COOH solvent [dppp = 1,3-bis (diphenylphosphino)propane]" Andrea VAVASORI et al., Journal of Molecular Cat. A. Chem., vol. 204-205, 2003, pp 295-303	
	CB	"Hydroesterification of styrene using an in situ formed Pd(OTs) <sub>2</sub> (PPh <sub>3</sub> ) <sub>2</sub> complex catalyst", A. Seayad et al., Journal of Molecular Cat. A. Chem., vol. 151, 2000, pp 47-59	
	CC	"Carbon monoxide-ethylene copolymerization catalyzed by a Pd(AcO) <sub>2</sub> /dpppTsOH <sup>1</sup> system: the promoting effect of water and of the acid", Journal of Molecular Cat. A. Chem., vol. 110, 1996, pp 13-23	
	CD	Kirk Othmer Encyclopaedia of Chemical Terminology, vol. 9, 4th Ed., p. 783, Hydrolysis of Organic Esters, pp. 783-85 and 87, John Wiley & Sons, January 1994.	
	CE	MASTERS, Christopher, "Homogeneous Transition Metal Catalysis," p. 4-21, Chapman and Hall, February, 1981.	
	CF	Lide et al., Handbook of Chem and Phys., 76th Ed., CRC Press, 1995, ps. 8-141 6-155 to 6-177; 15-16 to 15-25	
	CG	CLEGG, W. ET AL: "Highly active and selective catalysts for the production of methyl propanoate via the methoxycarbonylation of ethene" CHEM. COMMUN., 1999, pages 1877-1878	
	CH	JUAN G. KNIGHT ET AL: "Remarkable Differences in Catalyst Activity and Selectivity for the production of Methyl Propanoate versus CO-Ethylene Copolymer by a Series of palladium Complexes of Related C <sub>4</sub> -Bridged Diphosphines" Organometallics 2000, 19 4957-4967	
	CI	ADAM J. RUCKLIDGE ET AL.: "Methoxycarbonylation of vinyl acetate catalysed by palladium complexes of bis (ditertiarybutylphosphinomethyl) benzene and related ligands" CHEM. COMMUN., 2005, pages 1176-1178	
	CJ	Brunkan et al. "Effect of chiral cavities associated with molecularly imprinted platinum centers on the selectivity of ligand-exchange reactions at platinum", Journal of American Chemical Society, no. 22, pages 6217-6225, (2000).	
	CK	Brunkan et al. "Unorthodox C,O binding mode of Me <sub>2</sub> BINOL in Pt(II) complexes", Journal of American Chemical Society, no. 120, pages 11002-11003, (1998).	
	CL	Andrews et al. "Regioselective complexation of unprotected carbohydrates by Platinum(II); Synthesis, structure, complexation equilibria, and hydrogen-bonding in carbonate-derived bis(phosphine)platinum(II) diolate and alditolate complexes", Journal of American Chemical Society, no. 116, pages 5730-5740, (1994).	
	CM	Hartwig, et al. "Structure and reactions of oxametallacyclobutanes and oxametallacyclobutenes of ruthenium", Organometallics, vol. 10, no. 9, pages 3344-3362 (1991)	

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	CN	Konno et al. "Preparation and spectroscopic characteristics of geometrical isomers of bis[1,2-bis(dimethylphosphino)ethane]cobalt(III) complexes with thiolate ligands", The Chemical Society of Japan, no. 62, pages 3475-3478, (1989).			
	CO	Cecconi et al. "Palladium complexes with the tripodal phosphine tris(2-diphenylphosphinoethyl)amine. Synthesis and structure of trigonal, tetrahedral, trigonal bipyramidal, and square planar complexes", J. Chem. Soc. Dalton Trans., issue 1, pages xvii - xx. (1989).			
	CP	Miskowski et al. "Preparation and spectroscopic properties of Cobalt(III) complexes containing phosphine ligands. The electronic structural description of side-bonded dioxygen", Journal of American Chemical Society, vol. 98, no. 9, pages 2477-2483, (1976).			
	CQ	Hayward et al. "Some reactions of peroxobis (triphenylphosphine)platinum(II) and analogs with carbon dioxide, carbon disulfide, and other unsaturated molecules", Journal of American Chemical Society, vol. 92, issue 20, pages 5873-5878, (1970).			
	CR	Osman, Serindag "Synthesis of some platinum(II) diphosphine complexes of the type [PtX <sub>2</sub> (P-P)] (X <sub>2</sub> = CO <sub>3</sub> ; X = CH <sub>3</sub> COO, CF <sub>3</sub> COO, NCO)", Synth. React. Inorg. Met.-Org. Chem., vol. 27, no. 1, pages 69-76, (1997).			
	CS	Andrews et al. "Syntheses, spectra and structures of (diphosphine)platinum(II) carbonate complexes" Inorganic Chemistry, no. 35, pages 5478-5483, (1996).			
	CT	Latif et al. "Square planar platinum(II) complexes, crystal structures of <i>cis</i> -bis(triphenylphosphine) hydro(triphenylstannylyl) platinum(II) and <i>cis</i> -bis(triphenylphosphine) hydro(triphenylsilyl) platinum(II)", Journal of Organometallic Chemistry, no. 474, pages 217-221, (1994).			
	CU	Becker et al. "Synthesis and characterization of chiral diphosphine platinum(II) VANOL and VAPOL complexes", Organometallics, no. 22, pages 3245-3249, (2003).			
	CV	Becker et al. "Imprinting chiral information into rigidified dendrimers", Organometallics, no. 22, pages 4984-4998, (2003).			
	CW	Peng et al. "Chiral rodlike platinum complexes, double helical chains and potential asymmetric hydrogenation ligand based on "linear" building blocks: 1,8,9,16-tetrahydroxytetraphenylenne and 1,8,9,16-tetrakis(diphenylphosphino)tetraphenylenne" Journal of American Chemical Society, no. 127, pages 9603-9611, (2005).			
	CX	Wen et al. "Synthesis, resolution, and applications of 1,16-dihydroxytetraphenylenne as a novel building block in molecular recognition and assembly", Journal of Organic Chemistry, no. 68, pages 8918-8931, (2003).			
	CY	Mikami et al. "Molecular design of DABNTf as a highly efficient resolving reagent for racemic Pd complex with tropos biphenylphosphine (BIPHEP) ligand: circular dichroism (CD) spectra of enantiopure BIPHEP-Pd complex", Chirality, no. 15, pages 105-107, (2003).			

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	CZ	Tudor et al. "Diasteroisomer interconversion in chiral BiphepPtX <sub>2</sub> complexes", Organometallics, no. 19, pages 4376-4384, (2000).			T <sup>2</sup>
	CA1	Bellabarba et al., "Synthesis, X-ray characterization and reactions of a trigonal planar palladium(+) carbonyl complex", Chemical Communications, no. 15, pages 1916-1917, (2003).			
	CB1	Clegg et al., "Synthesis and reactivity of palladium hydrido-solvento complexes, including a key intermediate in the catalytic methoxycarbonylation of ethane to methylpropanoate", Journal of the Chemical Society, Dalton Transactions, no. 17, pages 3300-3308 (2002).			
	CC1	Clegg et al., "Characterisation and dynamics of [Pd(L-L)H(solv)]+, [Pd(L-L(CH <sub>2</sub> CH <sub>3</sub> )]+ and [Pd(L-L)(C(0)Et)(THF)]+ (L-L = 1,2-(CH <sub>2</sub> PBu <sub>2</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>4</sub> ): key intermediates in the catalytic methoxycarbonylation of ethane to methylpropanoate", Organometallics, vol. 21, no. 9, pages 1832-1840 (2002).			
	CD1	Edelbach et al., "Catalytic hydrogenolysis of biphenylene with platinum, palladium, and nickelphosphine complexes", Organometallics, vol. 17, no. 22, pages 4784-4794 (1998).			
	CE1	Kim et al., "Synthesis and theoretical study of palladium (II) complexes with aminophosphines as 7-membered chelate rings", Bulletin of the Korean Chemical Society, vol. 18, no. 11, pages 1162-1166 (1997).			
	CF1	Reddy et al., "Unexpected cross-metathesis between Si-C and Si-Si bonds", Chemical Communications, no. 16, pages 1865-1866 (1996).			
	CG1	Uchimaru et al., "Ring-opening polymerization of 1,1,2,2-tetramethyl-1,2-disilacyclopentane via palladium complex-catalysed Si-Si bond metathesis", Chemistry Letters, no. 2, page 164 (1995).			
	CH1	Portnoy et al., "Reactions of electron-rich arylpalladium complexes with olefins. Origin of the chelate effect in vinylation catalysis", Organometallics, vol. 13, no. 9, pages 3465-3479 (1994).			
	CI1	Wurst et al., "Synthesis and structure of the platinum (0) compounds [(dipb)Pt]2(COD) and (dipb) <sub>3</sub> PtI2 and of the cluster Hg <sub>6</sub> [Pt(dipb)] <sub>4</sub> (dipb = (iPr) <sub>2</sub> P(CH <sub>2</sub> ) <sub>4</sub> P(i-Pr) <sub>2</sub> )", Zeitschrift Für Anorganische Und Allgemeine Chemie, vol. 395, pages 239-250 (1991).			
	CJ1	Tanaka et al., "Synthesis of ketones via carbonylation of organic halides. II. Palladium-catalysed carbonylation of organic halides with terminal acetylenes in the presence of amines. Novel acetylenic ketone synthesis", Nippon Kagaku Kaishi, no. 3, pages 537-546 (1985).			
	CK1	Molander et al., "Synthesis and application of chiral cyclopropane-based ligands in palladium-catalyzed allylic alkylation", Journal of Organic Chemistry, vol. 69, no. 23, pages 8062-8069 (2004).			
	CL1	Brauer et al., "Reactions of coordinated ligands. XIV. Synthesis of a tetradentate phosphorus macrocycle in a palladium (II) template", Chemische Berichte, vol. 119, no. 1, pages 349-365 (1986).			

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	CM1	Dias et al., "Synthesis and characterization of .eta.5-monocyclopentadienyl (p-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies", Journal of Organometallic Chemistry, vol. 475, no. 1-2, pages 241-245 (1994).	
	CN1	PUGH, R. I. et al. "Tandem isomerisation-carbonylation catalysis: highly active palladium(II) catalysts for the selective methoxycarbonylation of internal alkenes to linear esters", Chemical Communications - CHEMCOM, Royal Society of Chemistry, GB, no. 16, (August 21, 2001), pages 1476-1477.	
	CO1	Cullen et al., "Structure of the Hydrogenation Catalyst [(PP)Rh(NBD)]ClO <sub>4</sub> , (PP) = (-5-[(CH <sub>3</sub> ) <sub>3</sub> C]PC <sub>5</sub> H <sub>4</sub> ) <sub>2</sub> Fe, and Some Comparative Rate Studies," Organometallics, vol. 2, pp. 714-719, 1983.	
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Examiner Signature	/Sikarl Witherspoon/	Date Considered	08/30/2009
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/561,912-Conf. #1376
				Filing Date	March 23, 2007
				First Named Inventor	Graham Eastham
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	3	Attorney Docket Number	31229-226445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AA*		US-5,149,868	09-22-1992	Drent	
AB*		US-5,436,356	07-25-1995	Drent et al.	
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AS*		US-6,982,357	01-03-2006	Crabtree et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
BA		EP-0495348-A1	07-22-1992	Koenig Wolfgang	
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Substitute for form 1449/PTO				<i><b>Complete if Known</b></i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/561,912-Conf. #1376
(Use as many sheets as necessary)				Filing Date	March 23, 2007
				First Named Inventor	Graham Eastham
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	
31229-226445					

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>5</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
BG	DE-19754304-A1		06-10-1999	Hoechst Ag	US6,391,818	
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BL	WO-01/28972-A1		04-26-2001	Shell Int Research et al.		

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				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	31229-226445

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CA*		Related U.S. Patent Application No. 10/524,023, filed November 17, 2005, Eastham et al.	
CB		OLAH, GEORGE A., et al., "AlCl <sub>3</sub> -Catalyzed Dichlorophosphorylation of Saturated Hydrocarbons with PCl <sub>3</sub> in Methylene Chloride Solution," <i>J. Org. Chem.</i> , 1990, 55, 1224-1227.	
CC		WEI-YONG YU, et al., "Preparation of Polymer-Protected Pt/Co Bimetallic Colloid and its Catalytic Properties in Selective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol," <i>Polymers FOR Advanced Technologies</i> , GB, John Wiley and Sons, Chichester, August 1, 1996, 719-722, Vol. 7, no. 8.	

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